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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/638,102	08/11/2000	David C. Schwartz	1512.112	7761
23598 BOYLE FRED	7590 07/11/2007 PRICKSON NEWHOLM		EXAMINER	
250 E. Wiscons		David C. Schwartz 1512.112 1007 LM STEIN & GRATZ S.C.	EBORAH A	
Suite 1030 MILWAUKEE	, WI 53202		ART UNIT	PAPER NUMBER
		·	1655	
			NOTIFICATION DATE	DELIVERY MODE
			07/11/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docketing@boylefred.com

		Application No.	Applicant(s)
		09/638,102	SCHWARTZ, DAVID C.
	Office Action Summary	Examiner	Art Unit
		Deborah A. Davis	1655
Period fo	The MAILING DATE of this communication app	pears on the cover sheet with the	correspondence address
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANS INSTRUCTION OF A STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANS INSTRUCTION OF A STATUTORY	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDOI	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).
Status			
1)⊠	Responsive to communication(s) filed on 23 M	larch 2003.	
· —		action is non-final.	
3)	Since this application is in condition for allowar	nce except for formal matters, p	rosecution as to the merits is
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.
Dispositi	ion of Claims		
5)□ 6)⊠ 7)□	Claim(s) 2.5-7.9-13.35,41 and 43-52 is/are penda) Of the above claim(s) 14-33 is/are withdraw Claim(s) is/are allowed. Claim(s) 2.5-7.9-13,35,41 AND 43-52 is/are Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.	
Applicati	ion Papers		
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. So ion is required if the drawing(s) is c	ee 37 CFR 1.85(a). Objected to. See 37 CFR 1.121(d).
Priority u	under 35 U.S.C. § 119		
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Applica ity documents have been recei ı (PCT Rule 17.2(a)).	ation No ved in this National Stage
	•		
Attachmen	• •	_	
2)	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informal 6) Other:	Date

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DETAILED ACTION

In view of the decision of the Board of Appeals on March 23, 2007, PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
- (2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

> TERRY MCKELVEY, PH.D. SUPERVISORY PATENT EXAMINER

Bruce M. Kisliuk, Director Technology Center 1600

The indicated allowability of claims 35, 2, 5-7 and 9-13 are withdrawn in view of the newly discovered reference(s) Kambara in view of Stimpson. Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2, 5-7, 9-13, 35, 41 and 43-52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stimpson et al (USP#6,037,186) in view of Kambara et al (USP#6,288,220).

The claims are drawn to a semi-custom array and a chemical screening kit comprising at least two different strips of a non-reactive substrate extending along a longitudinal axis and supporting, spaced along that longitudinal axis, a linear array of different, chemically reactive substance exposed on a surface of the strip; and a support frame for receiving and holding the strips for mutual exposure to a material to be screened wherein the strips include isolating bands of a chemically repellant coating between the chemically reactive substances.

The cited reference of Stimpson beneficially teaches two-dimensional arrays formed by cutting bundles or porous rods or spiral wound porous material (i.e. linear

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strips) and can be composed of thin lines of compounds (column 3, lines 35-45). The arrays of porous strips were treated with bovine serum albumin (BSA), which is a nonreactive substrate that extends along a longitudinal axis. The array of porous rods consists of a myriad of different zones each of which can have different binding properties (column 14, Example 1). In one embodiment, Stimpson teaches strips supporting linear arrays of different chemically reactive compounds on porous sheet materials. The porous sheet materials contain longitudinally printed lines of different chemically reactive substances (column 3, lines 35-45; column 5, lines 9-39; col. 13, lines 15-34 and columns 15-16 (Example 5); Figure 2). The porous rods or strips can be made into glass or ceramic material (column 12, lines 42-54) and therefore read on glass fibers as claimed. The strips include hydrophobic ink lines (see Figure 2B), which read on isolating bands of chemically repellant coating between the chemically reactive substances. Markings or colors are synthesized with paint on the arrays to distinguish sequences (column 11, lines 18-38). Such markings can be generated by photo-masks (i.e. printing) as claimed (column 7, lines 56-60). The arrays can be held together by bonding or a mechanical device, (i.e. a support frame, see column 10, lines 1-15) and the strips include recessed portions that receive the chemically reactive substances (see Figure 2A). Therefore it would appear that the strips would be transversely spaced in parallel along two perpendicular axes.

The cited reference of Stimpson does not teach assembling the different linear arrays into larger arrays as instantly claimed.

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However, the cited reference of Kambara beneficially teaches assembling different linear arrays into large two-dimensional arrays. Kambara teaches linear arrays of beads coated with DNA probes (column 3, lines 45-53). The beads are arrayed linearly in capillary tubes (column 8, lines 15-16). A plurality of capillary tubes can be assembled to create a two-dimensional probe array in which the capillary arrays are different from each other (column 4, lines 10-14; column 12, lines 24-33; column 18, (claim 10)). Kambara teaches that the arrays provide a process that permits easy production of a desired DNA probe array with a high density and entails a low production cost (column 1, lines 47-51).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the array of Stimpson who produced different linear arrays held together in a bonding or mechanical device (i.e. support frame) and assemble them into larger different linear arrays taught by Kambara based on the beneficial teachings of Kambara which permits easy production of a desired DNA probe array with a high density and entails a low production cost. One would have been motivated to assemble the larger arrays to cut production costs.

Conclusion

No claims are allowed.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah A. Davis whose telephone number is (571) 272-0818. The examiner can normally be reached on 8-5 Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, McKelvey Terry can be reached on (571) 272-0775. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Deborah A. Davis Patent Examiner Art Unit 1655 May 2007

TERRY MCKELVEY, PH.D.
SUPERVISORY PATENT EXAMINER

Jen a Mc Kebe